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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OSAGE UNDERGROUND INJECTION CONTROL PROGRAM
P O BOX 1495
PAWHUSKA, OK 74056

CERTIFIED MAIL

May 14, 1986

Mr. Tim Harrington
Calumet Oil Company
2455 East 51st - Suite 101
Tulsa, OK 74105

Re: Permit Application #06S1261P5115 - Modification

Well #17-1
Location: SE/4 SECTION 17-T25N-R6E
1650 FSL & 2310 FWL

Dear Mr. Harrington:

We have received your application for a permit to construct/convert the above referenced injection well. The application is deemed incomplete based on the following deficiencies marked below:

- _____ 1. Map using township-range sections showing the area of review and identifying all wells of public record penetrating the injection interval.
- _____ 2. Tabulation of data on the wells identified in item (1) of this checklist, including location, depth, date drilled, and record of completion, including plugging if performed.
- _____ 3. Operating data:
 - _____ (i) Maximum and average injection rate (bbl/day)
 - _____ (ii) Maximum and average injection pressure (psi)
 - _____ (iii) Specify whether operation is on cyclic or continuous operation basis (if cyclic, give cycling rate)
 - _____ (iv) Additives.

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_____ 4. Geologic data:

- _____ (i) Name of injection zone
- _____ (ii) Top and bottom depths of injection zone
- _____ (iii) Lithologic description of injection zone
- _____ (iv) Lithologic description of confining zone

_____ 5. Geologic data on the injection and confining zones, including faults. Please address the presence or absence of faults.

_____ 6. Depth to base of fresh water

_____ 7. Schematic drawings of the surface and subsurface details: Packer must be set within 75' of the top injection interval.

- _____ (i) total depth or plug back depth
- _____ (ii) depth to top and bottom of injection interval
- _____ (iii) depths to tops and bottoms of casing and cemented intervals, and amount of cement used (if gel is used, give percent gel used)
- _____ (iv) size of casing and tubing, and depth of packer, and
- _____ (v) hole diameter.

_____ 8. Copy of surety bond filed with the BIA Superintendent in accordance with BIA regulations, 25 CFR }226.6. A surety bond must be maintained until the injection well has been properly plugged.

__XX__ 9. Verification of public notice:

Affidavit (see attached sample) consisting of a list showing the names, addresses, and date that notice of permit application was sent to:

- _____ (i) the surface land owner
- _____ (ii) tenants on land where injection well is located or proposed to be located, and
- _____ (iii) each operator of a producing lease within one-half mile of the well location.

10. All available logging and testing data on the well (for existing wells, i.e., wells to be converted or wells previously authorized by rule).

XX 11. Certification form signed by well owner/operator or an authorized representative (authorization must be in writing and a copy attached. Authorization will only be accepted if granted by a company representative having the "Power of Attorney" for the requesting company).

12. Please include the most recent reservoir pressure or water level information available for your injection formation.

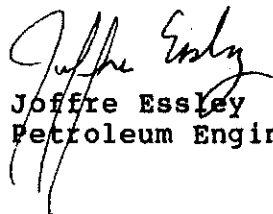
Please provide the information indicated above and resubmit within 30 days to:

Joffre Essley, Petroleum Engineer
Osage UIC Program
Box 1495
Pawhuska, OK 74056

Failure to submit the required information will result in the return of your incomplete application.

If you have any questions, or if we can be of assistance, please do not hesitate to contact me at (918) 287-4041.

Sincerely yours,



Joffre Essley
Petroleum Engineer

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